

MERCURY IN SOLID OR SEMISOLID WASTE (MANUAL COLD-VAPOR TECHNIQUE)**EPA 7471B REVISION 2 FEBRUARY 2007****Page 1 of 2**

Facility Name: _____ VELAP ID: _____

Assessor Name: _____ Analyst Name: _____ Inspection Date: _____

Relevant Aspect of Standards**Method
Reference****Y****N****N/A****Comments***Records Examined:* SOP Number/ Revision/ Date _____ Analyst: _____

Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____

Was this method used only for soils, sediments, bottom deposits, or sludge-type materials?

1.1

Were all sample containers prewashed with detergents, acids, and reagent water?

8.2

Sample Preparation:

Were aliquots taken from well-homogenized samples?

11.1

Were portions of reagent-water and aqua-regia added to sample aliquots?

11.1

Were mixtures next heated at 95±3°C for 2 minutes?

11.1

After cooling, were portions of reagent-water and potassium permanganate added?

11.1

After addition of potassium permanganate, did purple color persist for at least 15 minutes?

11.1

Were equal amounts of permanganate added to standards and blanks?

11.1

Were sample mixtures then heated for 30 minutes at 95±3°C?

11.1

After cooling, were portions of hydroxylamine sulfate added to sample mixtures to reduce excess permanganate?

11.1

Alternate Digestion Procedure:

Were portions of concentrated sulfuric acid and concentrated nitric acid added to sample aliquots?

11.2

Were portions of potassium permanganate next added to sample aliquots?

11.2

Were sample aliquots then autoclaved at 121±3° and 15 lb for 15 minutes?

11.2

After cooling, were samples diluted to volume with reagent-water?

11.2

Notes/ Comments:

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Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
After cooling, were portions of hydroxylamine sulfate added to sample mixtures to reduce excess permanganate?	11.2				
Was dead air space purged from digestion containers prior to proceeding with analysis?	11.2				

Notes/ Comments: